

FUND 402
SEWER CONSTRUCTION IMPROVEMENTS
(Formerly Sewer Bond Extension and Improvements)

Board of Supervisors' Adjustments

The following funding adjustments reflect all changes to the FY 2001 Advertised Budget Plan, as approved by the Board of Supervisors on April 24, 2000:

- The Board of Supervisors made no changes to the FY 2001 Advertised Budget Plan.

The following funding adjustments reflect all approved changes to the FY 2000 Revised Budget Plan from January 1, 2000 through April 17, 2000. Included are all adjustments made as part of the FY 2000 Third Quarter Review:

- An increase of \$175,000 in expenditures was necessary to install 550 linear feet of sanitary sewer lines for a new extension project associated with Old Courthouse/Besley Road.
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The following is a list of projects funded in FY 2001:

Project Number	Project Name	FY 2001 Advertised Budget Plan	FY 2001 Adopted Budget Plan	Increase/ (Decrease)
G00901	DC Treatment Blue Plains	\$4,992,258	\$4,992,258	\$0
I00351	Pump Station Renovations	3,000,000	3,000,000	0
T00124	Rocky Run Pump Station Rehabilitation	1,535,926	1,535,926	0
X00445	Integrated Sewer Metering	50,000	50,000	0
X00905	Sewer Replacement and Transmission	5,000,000	5,000,000	0
X00906	Sewer Line Enlargement	3,000,000	3,000,000	0
	Total	\$17,578,184	\$17,578,184	\$0

County Executive Proposed FY 2001 Advertised Budget Plan



Agency Overview

As part of the Public Works Management Council restructuring, Fund 402, Sewer Bond Extension and Improvements, is renamed Sewer Construction Improvements to more accurately reflect the functions of this fund.

This fund provides for sewer system construction projects funded by system revenues (e.g., Sewer Service Charges, Availability Fees) through a transfer from Fund 400, Sewer Revenue. In FY 2001, an amount of \$17,578,184 will provide funding for six projects.

FY 2001 funding includes \$4,992,258 to provide for the County's share of project costs associated with the upgrade to the District of Columbia (DC) Blue Plains Wastewater Treatment Plant. The FY 2001 funding is based on a projected expense summary and construction schedule.

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Funding of \$3,000,000 for Pump Station Renovations includes \$750,000 for the construction of additional chemical facilities as a result of the system-wide odor control study being conducted, \$1,000,000 for the installation of the Supervisory Control and Data Acquisition (SCADA) system, and \$1,250,000 for the scheduled renovation of five pump stations at Dead Run, Yacht Haven, Long Branch, Merrywood, and Pender.

An amount of \$1,535,926 for the Rocky Run Pump Station Rehabilitation will provide for the rehabilitation/enlargement of the current pumping station to handle the increase in wastewater flow in the Rocky Run watershed. This increase is based on the project schedule for related constructed costs from Upper Occoquan Sewage Authority (UOSA) and will allow the agency to increase the size of the pumps from 150 horsepower (hp) to 280 hp and increase the infrastructure to support the large pumps, a grinder system, and a new electrical system.

Funding of \$50,000 for Integrated Sewer Metering will provide for the upgrade of existing sewer meters throughout the County to comply with the Virginia Water Control Board Regulations which requires metering at all trunk sewer junctions.

Funding of \$5,000,000 for the Sewer Replacement and Transmission Program will provide for the recurring repair, replacement, and renovation of sewer lines using predominantly "no dig" technologies. This is an aggressive rehabilitation program under which approximately 36 miles of aging sewer lines will be worked on in FY 2001 to avoid more expensive and reactionary maintenance costs.

An amount of \$3,000,000 for Sewer Line Enlargement will provide funding to upgrade the Pohick Sewer Trunk Line. This is a 60-inch trunk line that is currently approaching capacity and needs to be replaced or have a parallel trunk line constructed. Approximately 5,150 linear feet of trunk line will be upgraded.

In addition, a nitrification reserve in the amount of \$2,500,000 is being held in Fund 400, Sewer Revenue, to provide funding for the County share of the design and construction expenses associated with the installation of a Biological Nutrient Removal (BNR) system at the Arlington Wastewater Treatment Plant. The retention of a nitrification reserve will provide the County with the ability to respond to State Water Control Board mandates for stricter phosphorus and nitrogen effluent permit standards.



Funding Adjustments

The following funding adjustments reflect all approved changes to the FY 2000 Revised Budget Plan since passage of the FY 2000 Adopted Budget Plan. Included are all adjustments made as part of the FY 1999 Carryover Review and all other approved changes through December 31, 1999:

- As part of the FY 1999 Carryover Review, the Board of Supervisors approved an increase of \$67,736,364 due to the carryover of unexpended project balances of \$58,794,421 and additional funding of \$8,941,943 for Project I00904, Alexandria Sanitation Authority (ASA) Improvements primarily for final ASA project redesign costs.

A Fund Statement, a Summary of Capital Projects, and Project Detail Tables for each project funded in FY 2001 are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project). The Project Detail Tables include project location, description, source of funding, and completion schedules.

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FUND STATEMENT

Fund Type G40, Enterprise Funds

Fund 402, Sewer Construction Improvements
(Formerly Sewer Bond Extension and Improvements)

	FY 1999 Actual	FY 2000 Adopted Budget Plan	FY 2000 Revised Budget Plan	FY 2001 Advertised Budget Plan	FY 2001 Adopted Budget Plan
Beginning Balance	\$57,063,065	\$0	\$58,836,364	\$0	\$0
Revenue:					
Revenue from the Commonwealth	\$43,463	\$0	\$0	\$0	\$0
Total Revenue	\$43,463	\$0	\$0	\$0	\$0
Transfer In:					
Sewer Revenue (400)	\$31,239,962	\$49,700,000	\$58,775,000	\$17,578,184	\$17,578,184
Total Transfer In	\$31,239,962	\$49,700,000	\$58,775,000	\$17,578,184	\$17,578,184
Total Available	\$88,346,490	\$49,700,000	\$117,611,364	\$17,578,184	\$17,578,184
Total Expenditures	\$29,510,126	\$49,700,000	\$117,611,364	\$17,578,184	\$17,578,184
Total Disbursements	\$29,510,126	\$49,700,000	\$117,611,364	\$17,578,184	\$17,578,184
Ending Balance	\$58,836,364	\$0	\$0	\$0	\$0

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COUNTY OF FAIRFAX, VA

FY 2001 SUMMARY OF CAPITAL PROJECTS

FUND TYPE:G40 ENTERPRISE FUND :402 SEWER BOND EXTENSION & IMPROV (524)	TOTAL PROJECT ESTIMATE	FY 1999 ACTUAL EXPENDITURES	FY 2000 REVISED BUDGET	FY 2001 ADVERTISED BUDGET PLAN	FY 2001 ADOPTED BUDGET PLAN	FINANCING GENERAL FUND	FINANCING BOND	FINANCING OTHER
F00112 DEAD RUN SPS	568,508	.00	.00					
G00900 PROJECT CILI D	12,258,259	.00	.00					
G00901 DC TREATMENT	61,891,342	537,708.83	1,041,404.58	4,992,258	4,992,258			4,992,258
G00903 ARLINGTON WWT	9,057,392	113,011.00	1,701,929.00					
I00030 BACKLICK RUN	89,033	.00	.00					
I00351 PUMP STATION		513,949.19	3,971,410.65	3,000,000	3,000,000			3,000,000
I00355 PUMP AND HAUL	2,900,000	695,117.51	1,953,955.20					
I00903 ALEXANDRIA-HO	8,001,820	.00	.00					
I00904 ASA WTP IMPR	149,286,898	12,978,338.42	53,481,979.65					
I00905 BELL HAVEN RE	1,000,000	121,250.04	856,221.74					
K00115 LITTLE HUNTIN	659,802	.00	.00					
K00301 LORTON PUMPOV	10,335,477	.00	18,651.07					
L00117 DOGUE CREEK R	1,711,456	349,800.05	204,942.10					
M00315 OLD KEENE MIL	3,797,611	.00	.00					
M00319 DIFFICULT RUN	5,080,265	.00	.00					
N00321 LOWER POTOMAC	105,269,000	4,539,851.82	27,708,476.07					
R00001 LINCOLN-LEWIS	1,312,856	.00	.00					
T00122 UOSA EXPANSIO	10,235,329	.00	.00					
T00124 ROCKY RUN PUM	2,535,926	.00	1,000,000.00	1,535,926	1,535,926			1,535,926
X00440 COMPOSTING FA	2,705,688	.00	.00					
X00441 LINE MAINTENA	1,323,050	.00	.00					
X00445 INTEGRATED SE		11,589.06	122,519.10	50,000	50,000			50,000
X00814 EXT PROJECT F	798,641	.00	.00					
X00815 EXT PROJECT F	4,736,534	.00	.00					
X00816 EXT PROJECT F	3,627,221	.00	.00					
X00818 E & I PROJECT	2,317,674	.00	.00					
X00819 EXTENSION PRO	4,276,145	.00	.00					
X00820 EXTENSION & I	617,480	.00	.00					
X00821 CRYSTAL SPRIN	345,902	.00	.00					
X00822 EXTENSION PRO	732,677	.00	.00					
X00823 EXTENSION PRO	3,779,003	37,074.26	1,427,455.23					
X00824 EXTENSION PRO	1,258,000	13,832.40	348,741.48					
X00825 EXTENSION PRO	3,049,001	911,172.76	500,668.85					
X00826 EXTENSION PRO	5,744,099	1,958,188.59	3,119,970.33					
X00900 REPLACEMENT T		.00	759,576.00					
X00905 REPLACEMENT & T		6,628,483.44	11,131,915.85	5,000,000	5,000,000			5,000,000
X00906 SEWER LINE EN		1,527.12	199,446.41	3,000,000	3,000,000			3,000,000
X00907 AREAWAY DRAIN	224,924	.00	.00					
X00908 SEWER LINE RE		1,181.40	136,920.04					
X00910 REPLACEMENT A		.00	2,993,923.00					
X00930 SEWER RELOCAT		56,999.12	346,118.83					
X00935 RT 50/66 SEWE	1,000,000	1,000,000.00	1,000,000.00					
X00940 DEVELOPER PRO		10,237.43	163,126.14					
X00942 ACCOTINK PS R	2,838,883	30,814.01	2,802,405.64					
X00998 SEWER CONTING		.00	567,034.76					
X00999 SEWER REVOLVI		.00	52,572.00					
FUND 402 TOTAL	425,365,896	29,510,126.45	17,611,363.72	17,578,184	17,578,184			17,578,184

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G00901	DC Treatment Blue Plains
Countywide	Countywide
<p>This project is for the payment to the District of Columbia Water and Sewer Authority (DCWASA) for Fairfax County's share of the projected costs associated with the upgrade to DC Blue Plains Wastewater Treatment Plant. The County pays for approximately 8.4 percent of the total costs for the design and construction of the upgrade for nitrification and sludge handling facilities. Fairfax County's estimated share of the project cost is \$61,891,342 over a six-year period. FY 2001 funding of \$4,992,258 provides for the County's share for the fiscal year, based on DCWASA's projected expense summary and construction schedule.</p>	

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Construction	\$245,551	\$0	\$0	\$245,551	\$0	\$0
Interjuris- dictional Payment	61,645,791	20,337,809	537,709	795,854	4,992,258	34,982,161
Total	\$61,891,342	\$20,337,809	\$537,709	\$1,041,405	\$4,992,258	\$34,982,161

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$61,891,342	\$61,891,342

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
N/A	N/A	N/A	Various	Fourth Quarter FY 2005

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I00351	Pump Station Renovations
Countywide	Countywide
<p>This project provides for the renovation of the existing pumping stations within the Wastewater Management Program. FY 2001 funding in the amount of \$3,000,000 includes \$750,000 for the construction of additional chemical facilities as a result of the system-wide odor control study being conducted; \$1,000,000 for the installation of a Supervisory Control and Data Acquisition (SCADA) system to improve the pump station's ability to monitor and control the pumping stations from a remote control; and \$1,250,000 for the scheduled renovation of five pump stations at Dead Run, Yacht Haven, Long Branch, Merrywood, and Pender.</p>	

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$5,556	\$0	\$10,634	\$0	\$0
Design and Engineering	0	1,524,450	320,356	405,933	0	0
Construction	0	4,111,332	188,743	3,525,435	3,000,000	0
Other	0	112,940	4,850	29,409	0	0
Total	Continuing	\$5,754,278	\$513,949	\$3,971,411	\$3,000,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$3,000,000	\$3,000,000

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T00124	Rocky Run Pump Station Rehabilitation
Rocky Run Watershed	Sully
This project funds the rehabilitation/enlargement of the current pumping station to handle the increase in wastewater flow in the Rocky Run watershed. The current pumping station has reached full capacity. FY 2001 funding of \$1,535,926 is based on the Upper Occoquan Sewage Authority (UOSA) current project schedule for the related construction.	

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	272,000	0	0	272,000	0	0
Construction	2,235,926	0	0	700,000	1,535,926	0
Other	28,000	0	0	28,000	0	0
Total	\$2,535,926	\$0	\$0	\$1,000,000	\$1,535,926	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$2,535,926	\$2,535,926

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
N/A	First Quarter FY 2000	Fourth Quarter FY 2000	First Quarter FY 2001	Fourth Quarter FY 2001

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X00445	Integrated Sewer Metering
Countywide	Countywide
<p>This project funds the Wastewater Management's metering program. Flows must be monitored to: 1) determine when the lines are nearing maximum capacity, 2) detect groundwater inflow/infiltration, 3) allow proper billing under interjurisdictional agreements for sewage treatment, and 4) comply with the Virginia Water Control Board regulations requiring metering at all trunk sewer junctions. FY 2001 funding of \$50,000 will provide for the upgrade of existing meters based on the agency's replacement metering schedules.</p>	

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	36,830	0	24,612	0	0
Construction	0	63,464	0	0	0	0
Other	0	1,480,047	11,589	97,907	50,000	0
Total	Continuing	\$1,580,341	\$11,589	\$122,519	\$50,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$50,000	\$50,000

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X00905	Sewer Replacement and Transmission Program
Countywide	Countywide
<p>This is a continuing project established to implement systematic rehabilitation of the County's more than 3,000 miles of sanitary sewer lines. Rehabilitation options include techniques/products such as slip-lining, instituforn, and fold and form. This work is performed by outside contractors. This project completed 19.3 miles of sewer lines in FY 1999 and anticipates the completion of 25 miles of sewer lines in FY 2000. FY 2001 funding in the amount of \$5,000,000 is included for the recurring repair, replacement and renovation of approximately 36 miles of sewer lines using predominantly "no dig" technologies. As emergency projects are identified, additional funding may be required.</p>	

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$108,166	\$13,051	\$11,988	\$0	\$0
Design and Engineering	0	1,263,674	92,189	501,188	0	0
Construction	0	32,324,696	6,523,243	10,550,650	5,000,000	0
Other	0	183,880	0	68,090	0	0
Total	Continuing	\$33,880,416	\$6,628,483	\$11,131,916	\$5,000,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$5,000,000	\$5,000,000

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X00906	Sewer Line Enlargement	
Countywide		Countywide
<p>This project funds the design and construction of the replacement of undersized sewer lines or lines that have reached capacity. Due to its long-term nature, this project is ongoing and funded as inadequate sewer lines are identified. FY 2001 funding of \$3,000,000 is required to replace the Pohick Sewer Trunk line that is 60 inches in diameter and approximately 5,150 linear feet. This line is nearing capacity and needs to be replaced or have a parallel trunk line constructed.</p>		

	Total Project Estimate	Prior Expenditures	FY 1999 Expenditures	FY 2000 Revised Budget Plan	FY 2001 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	333,509	1,527	183,414	0	0
Construction	0	1,483,403	0	15,380	3,000,000	0
Other	0	9,348	0	652	0	0
Total	Continuing	\$1,826,260	\$1,527	\$199,446	\$3,000,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$3,000,000	\$3,000,000